

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1342553

Luminaire Tested: P3A09R409830DE010 E3CA301MW

Issue Date: 2/13/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1342553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/13/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3A09R409830DE010 E3CA301MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , E3CA301MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

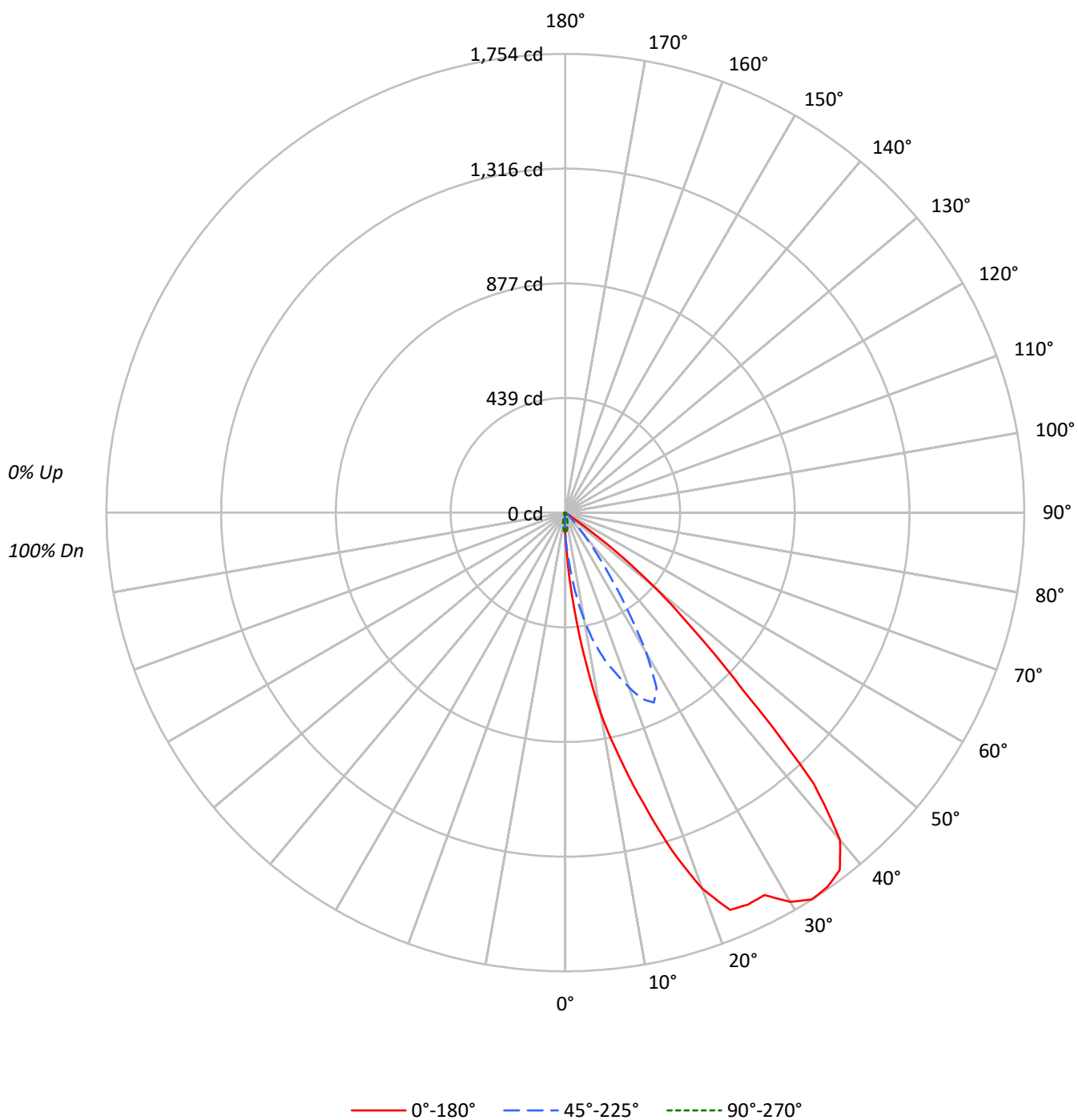
Lumens per Lamp: N/A  
Luminaire Lumens: 646.9 lumens  
Efficiency: N/A  
Efficacy: 58.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: P3A09R409830DE010 E3CA301MW

### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| RF  | 20  |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |    | 20 |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |    | 10 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |
| 1   | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |
| 2   | 105 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  | 92  | 89  | 86  | 89  | 86  | 84  | 82  |    |    |
| 3   | 99  | 91  | 85  | 80  | 97  | 90  | 84  | 80  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 79  | 76  | 74  |    |    |
| 4   | 92  | 83  | 77  | 71  | 90  | 82  | 76  | 71  | 80  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 68  | 67  |    |    |
| 5   | 86  | 76  | 69  | 64  | 84  | 75  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 62  | 70  | 65  | 62  | 60  |    |    |
| 6   | 80  | 70  | 63  | 57  | 79  | 69  | 62  | 57  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 54  |    |    |
| 7   | 75  | 64  | 57  | 52  | 74  | 63  | 56  | 52  | 62  | 56  | 51  | 61  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 47  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |
| 9   | 66  | 54  | 47  | 42  | 65  | 54  | 47  | 42  | 53  | 46  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 45°    | 90°   | 135°  | 180°  |
|-----|--------|--------|-------|-------|-------|
| 0°  | 16797  | 16797  | 16797 | 16797 | 16797 |
| 5°  | 75721  | 48272  | 15056 | 5767  | 4204  |
| 10° | 173633 | 93274  | 10599 | 2071  | 1581  |
| 15° | 260569 | 132328 | 6583  | 1112  | 999   |
| 20° | 356774 | 165891 | 3827  | 630   | 770   |
| 25° | 399967 | 193826 | 1984  | 532   | 653   |
| 30° | 435029 | 156454 | 836   | 405   | 684   |
| 35° | 467551 | 80067  | 294   | 589   | 883   |
| 40° | 467705 | 31946  | 143   | 630   | 1088  |
| 45° | 298636 | 10699  | 341   | 1023  | 1520  |
| 50° | 155014 | 1296   | 546   | 1296  | 1876  |
| 55° | 13381  | 191    | 612   | 1682  | 2294  |
| 60° | 482    | 219    | 702   | 1930  | 2631  |
| 65° | 571    | 259    | 1141  | 1972  | 2854  |
| 70° | 321    | 321    | 1410  | 2116  | 2821  |
| 75° | 424    | 424    | 1356  | 2288  | 3219  |
| 80° | 631    | 631    | 2020  | 2020  | 2778  |
| 85° | 0      | 1258   | 4026  | 2768  | 2768  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 298636 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 14.9   | 2.3       |
| 10°-20°   | 87.6   | 13.5      |
| 20°-30°   | 191.8  | 29.6      |
| 30°-40°   | 218.5  | 33.8      |
| 40°-50°   | 115.3  | 17.8      |
| 50°-60°   | 13.6   | 2.1       |
| 60°-70°   | 2.4    | 0.4       |
| 70°-80°   | 2.0    | 0.3       |
| 80°-90°   | 0.9    | 0.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 294.3  | 45.5      |
| 0°-40°    | 512.8  | 79.3      |
| 0°-60°    | 641.6  | 99.2      |
| 0°-90°    | 646.9  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 646.9  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45° | 90° | 135° | 180° | Flux |
|-----|------|-----|-----|------|------|------|
| 0°  | 77   | 77  | 77  | 77   | 77   |      |
| 5°  | 344  | 219 | 68  | 26   | 19   | 46   |
| 15° | 1148 | 583 | 29  | 5    | 4    | 338  |
| 25° | 1653 | 801 | 8   | 2    | 3    | 762  |
| 35° | 1747 | 299 | 1   | 2    | 3    | 1083 |
| 45° | 963  | 34  | 1   | 3    | 5    | 776  |
| 55° | 35   | 0   | 2   | 4    | 6    | 109  |
| 65° | 1    | 0   | 2   | 4    | 6    | 1    |
| 75° | 0    | 0   | 2   | 3    | 4    | 1    |
| 85° | 0    | 0   | 2   | 1    | 1    | 0    |
| 90° | 0    | 0   | 0   | 0    | 0    |      |

TEST NUMBER: P1342553

CATALOG NUMBER: P3A09R409830DE010 E3CA301MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°   | 67.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0°    | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6   | 76.6  | 76.6  |
| 2.5°  | 170.6  | 170.6  | 170.1  | 165.1  | 164.6  | 164.0  | 155.3  | 153.1  | 142.7  | 135.6 | 103.4 |
| 5°    | 344.0  | 336.3  | 335.8  | 327.0  | 312.2  | 292.6  | 280.0  | 259.7  | 240.1  | 219.3 | 127.4 |
| 7.5°  | 547.9  | 554.5  | 536.4  | 527.1  | 494.3  | 470.8  | 434.7  | 403.0  | 358.7  | 317.2 | 147.1 |
| 10°   | 779.8  | 768.3  | 750.3  | 732.2  | 696.7  | 654.6  | 601.0  | 544.6  | 480.7  | 418.9 | 158.0 |
| 12.5° | 960.8  | 946.0  | 935.1  | 910.5  | 875.5  | 821.3  | 757.4  | 681.9  | 597.1  | 508.0 | 157.5 |
| 15°   | 1147.8 | 1133.0 | 1108.4 | 1086.6 | 1034.6 | 973.9  | 904.5  | 804.9  | 701.0  | 582.9 | 146.0 |
| 17.5° | 1353.4 | 1334.3 | 1306.9 | 1273.6 | 1223.3 | 1156.0 | 1068.0 | 946.6  | 799.5  | 644.2 | 125.2 |
| 20°   | 1528.9 | 1517.5 | 1490.1 | 1450.7 | 1401.5 | 1335.9 | 1234.2 | 1099.7 | 920.3  | 710.9 | 99.5  |
| 22.5° | 1643.8 | 1633.4 | 1614.8 | 1580.3 | 1543.2 | 1473.2 | 1380.2 | 1232.6 | 1021.5 | 771.6 | 75.5  |
| 25°   | 1653.1 | 1648.7 | 1643.8 | 1632.3 | 1609.9 | 1560.1 | 1469.3 | 1310.2 | 1084.4 | 801.1 | 55.8  |
| 27.5° | 1648.2 | 1646.5 | 1645.4 | 1639.4 | 1624.6 | 1575.4 | 1482.5 | 1321.7 | 1076.2 | 755.2 | 41.0  |
| 30°   | 1718.1 | 1713.2 | 1710.5 | 1690.8 | 1652.0 | 1576.0 | 1454.6 | 1259.9 | 956.4  | 617.9 | 29.5  |
| 32.5° | 1753.7 | 1752.6 | 1749.9 | 1730.7 | 1676.0 | 1577.1 | 1407.5 | 1110.6 | 758.5  | 446.2 | 20.2  |
| 35°   | 1746.6 | 1741.1 | 1731.3 | 1695.7 | 1619.7 | 1495.6 | 1255.5 | 887.0  | 547.4  | 299.1 | 13.1  |
| 37.5° | 1722.5 | 1709.9 | 1690.8 | 1626.8 | 1525.7 | 1356.1 | 1018.2 | 652.9  | 372.4  | 193.6 | 7.7   |
| 40°   | 1633.9 | 1617.0 | 1586.9 | 1508.7 | 1375.8 | 1117.7 | 753.0  | 441.3  | 244.4  | 111.6 | 2.2   |
| 42.5° | 1404.8 | 1382.9 | 1361.1 | 1273.6 | 1121.6 | 833.4  | 495.4  | 272.9  | 139.4  | 61.2  | 0.5   |
| 45°   | 963.0  | 935.6  | 905.6  | 842.1  | 720.2  | 504.7  | 294.7  | 153.7  | 72.2   | 34.5  | 0.5   |
| 47.5° | 668.8  | 656.2  | 603.7  | 522.8  | 400.8  | 267.4  | 152.6  | 75.5   | 38.3   | 15.9  | 0.5   |
| 50°   | 454.4  | 440.2  | 379.0  | 300.8  | 213.3  | 128.0  | 70.0   | 37.7   | 17.0   | 3.8   | 0.5   |
| 52.5° | 238.4  | 220.9  | 182.1  | 138.9  | 86.4   | 53.6   | 30.6   | 16.4   | 4.9    | 0.5   | 0.5   |
| 55°   | 35.0   | 32.3   | 26.2   | 21.3   | 19.1   | 14.8   | 8.7    | 3.8    | 0.5    | 0.5   | 1.1   |
| 57.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.6    | 1.6    | 1.1    | 0.5    | 0.5    | 0.5   | 1.1   |
| 60°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 62.5° | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 65°   | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 67.5° | 1.1    | 1.1    | 1.1    | 1.1    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1   | 1.6   |
| 70°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.6   |
| 72.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1   | 1.6   |
| 75°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.6   |
| 77.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.1   | 1.6   |
| 80°   | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.1   |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5   | 1.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5   | 1.1   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5   | 1.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   |

TEST NUMBER: P1342553

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**CANDELA DISTRIBUTION (continued):**

|       | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|--------|------|--------|------|
| 0°    | 76.6 | 76.6   | 76.6 | 76.6   | 76.6 |
| 2.5°  | 75.5 | 55.8   | 43.2 | 37.2   | 36.6 |
| 5°    | 68.4 | 39.9   | 26.2 | 20.2   | 19.1 |
| 7.5°  | 58.0 | 27.9   | 15.3 | 10.9   | 10.4 |
| 10°   | 47.6 | 19.1   | 9.3  | 7.7    | 7.1  |
| 12.5° | 37.7 | 12.6   | 6.6  | 6.0    | 5.5  |
| 15°   | 29.0 | 8.2    | 4.9  | 4.4    | 4.4  |
| 17.5° | 21.9 | 5.5    | 3.8  | 3.8    | 3.8  |
| 20°   | 16.4 | 3.8    | 2.7  | 3.3    | 3.3  |
| 22.5° | 11.5 | 2.7    | 2.2  | 2.7    | 2.7  |
| 25°   | 8.2  | 2.2    | 2.2  | 2.7    | 2.7  |
| 27.5° | 5.5  | 1.6    | 1.6  | 2.2    | 2.7  |
| 30°   | 3.3  | 1.1    | 1.6  | 2.2    | 2.7  |
| 32.5° | 1.6  | 1.1    | 1.6  | 2.7    | 2.7  |
| 35°   | 1.1  | 1.6    | 2.2  | 2.7    | 3.3  |
| 37.5° | 0.5  | 1.6    | 2.2  | 3.3    | 3.3  |
| 40°   | 0.5  | 1.6    | 2.2  | 3.3    | 3.8  |
| 42.5° | 1.1  | 2.2    | 2.7  | 3.8    | 4.4  |
| 45°   | 1.1  | 2.2    | 3.3  | 4.4    | 4.9  |
| 47.5° | 1.1  | 2.2    | 3.8  | 4.9    | 4.9  |
| 50°   | 1.6  | 2.7    | 3.8  | 4.9    | 5.5  |
| 52.5° | 1.6  | 2.7    | 3.8  | 5.5    | 6.0  |
| 55°   | 1.6  | 2.7    | 4.4  | 5.5    | 6.0  |
| 57.5° | 1.6  | 3.3    | 4.4  | 5.5    | 6.0  |
| 60°   | 1.6  | 2.7    | 4.4  | 5.5    | 6.0  |
| 62.5° | 2.2  | 2.7    | 3.8  | 5.5    | 5.5  |
| 65°   | 2.2  | 2.7    | 3.8  | 5.5    | 5.5  |
| 67.5° | 2.2  | 2.7    | 3.8  | 4.9    | 4.9  |
| 70°   | 2.2  | 2.7    | 3.3  | 4.4    | 4.4  |
| 72.5° | 2.2  | 2.7    | 3.3  | 3.8    | 4.4  |
| 75°   | 1.6  | 2.2    | 2.7  | 3.3    | 3.8  |
| 77.5° | 1.6  | 2.2    | 2.2  | 3.3    | 3.3  |
| 80°   | 1.6  | 1.6    | 1.6  | 2.2    | 2.2  |
| 82.5° | 1.6  | 1.6    | 1.1  | 1.6    | 1.6  |
| 85°   | 1.6  | 1.1    | 1.1  | 1.1    | 1.1  |
| 87.5° | 1.1  | 1.1    | 0.5  | 0.5    | 0.5  |
| 90°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

(END OF REPORT)